



SEQUENCE LISTING

<110> Jung, Birgit
Mueller, Stefan
Kraut, Norbert

<120> Method for identifying compounds that inhibit or reduce a chronic inflammatory airway disease in which a macrophage is in a hyperactivated status due to down-regulated p21-activated kinase 2 (PAK2) kinase

<130> 1/1177

<140> 10/029,905

<141> 2001-12-21

<150> US 60/257,854

<151> 2000-12-22

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<170> PatentIn Ver. 2.1

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Primer

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<210> 3

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<212> DNA

<213> Homo sapiens

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ccagaaattt ctctccatc tgattttgag cacaccatcc atgttggtt tgatactgtt 180

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<211> 524

<212> PRT

<213> Homo sapiens

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Ala Asn His Ser Leu Lys Pro Leu Pro Ser Val Pro Glu Glu Lys Lys
      35              40              45

Pro Arg His Lys Ile Ile Ser Ile Phe Ser Gly Thr Glu Lys Gly Ser
      50              55              60

Lys Lys Lys Glu Lys Glu Arg Pro Glu Ile Ser Pro Pro Ser Asp Phe
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Glu His Thr Ile His Val Gly Phe Asp Ala Val Thr Gly Glu Phe Thr
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Gly Met Pro Glu Gln Trp Ala Arg Leu Leu Gln Thr Ser Asn Ile Thr
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 Gly Thr Glu Ala Pro Ala Val Val Thr Glu Glu Glu Asp Asp Asp Glu
 165 170 175
 Glu Thr Ala Pro Pro Val Ile Ala Pro Arg Pro Asp His Thr Lys Ser
 180 185 190
 Ile Tyr Thr Arg Ser Val Ile Asp Pro Val Pro Ala Pro Val Gly Asp
 195 200 205
 Ser His Val Asp Gly Ala Ala Lys Ser Leu Asp Lys Gln Lys Lys Lys
 210 215 220
 Pro Lys Met Thr Asp Glu Glu Ile Met Glu Lys Leu Arg Thr Ile Val
 225 230 235 240
 Ser Ile Gly Asp Pro Lys Lys Lys Tyr Thr Arg Tyr Glu Lys Ile Gly
 245 250 255
 Gln Gly Ala Ser Gly Thr Val Phe Thr Ala Thr Asp Val Ala Leu Gly
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 275 280 285
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 325 330 335
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 340 345 350
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Arg Lys Ala Tyr Gly Pro Lys Val Asp Ile Trp Ser Leu Gly Ile Met
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

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<210> 8
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Primer

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 <212> DNA
 <213> Homo sapiens

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<212> PRT

<213> Homo sapiens

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Lys Leu Asp Phe Ser Asp Thr Met Val Gln Gln Lys Leu Asp Asp Ile
      35              40              45

Lys Asp Arg Ile Lys Arg Glu Ile Arg Lys Glu Leu Lys Ile Lys Glu
      50              55              60

Gly Ala Glu Asn Leu Arg Lys Val Thr Thr Asp Lys Lys Ser Leu Ala
      65              70              75              80

Tyr Val Asp Asn Ile Leu Lys Lys Ser Asn Lys Lys Leu Glu Glu Leu
          85              90              95

His His Lys Leu Gln Glu Leu Asn Ala His Ile Val Val Ser Asp Pro
      100              105              110

Glu Asp Ile Thr Asp Cys Pro Arg Thr Pro Asp Thr Pro Asn Asn Asp
      115              120              125

Pro Arg Cys Ser Thr Ser Asn Asn Arg Leu Lys Ala Leu Gln Lys Gln
      130              135              140

Leu Asp Ile Glu Leu Lys Val Lys Gln Gly Ala Glu Asn Met Ile Gln
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Met Tyr Ser Asn Gly Ser Ser Lys Asp Arg Lys Leu His Gly Thr Ala
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Ile	Ser	Val	Tyr	Trp	Arg	Asp	Trp	Arg	Ser	Leu	Cys	Ala	Val	Lys	Phe	435	440	445
Leu	Arg	Leu	Glu	Asp	Phe	Leu	Asp	Asn	Gln	Arg	His	Gly	Met	Cys	Leu	450	455	460
Tyr	Leu	Glu	Pro	Gln	Gly	Thr	Leu	Phe	Ala	Glu	Val	Thr	Phe	Phe	Asn	465	470	475
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 Pro Val Val Asp Val Arg Ile Pro Gln Leu Ala Pro Pro Ala Ser Asp
 545 550 555 560
 Ser Thr Val Thr Lys Leu Asp Phe Asp Leu Glu Pro Glu Pro Pro Pro
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 Ala Pro Pro Arg Ala Ser Ser Leu Gly Glu Ile Asp Glu Ser Ser Glu
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 Ile Gln Asn Asp Arg Asn Ser Ile Leu Pro Lys Ser Gln Ser Glu Tyr
 610 615 620
 Lys Pro Asp Thr Pro Gln Ser Gly Leu Glu Tyr Ser Gly Ile Gln Glu
 625 630 635 640
 Leu Glu Asp Arg Arg Ser Gln Gln Arg Phe Gln Phe Asn Leu Gln Asp
 645 650 655
 Phe Arg Cys Cys Ala Val Leu Gly Arg Gly His Phe Gly Lys Val Leu
 660 665 670
 Leu Ala Glu Tyr Lys Asn Thr Asn Glu Met Phe Ala Ile Lys Ala Leu
 675 680 685
 Lys Lys Gly Asp Ile Val Ala Arg Asp Glu Val Asp Ser Leu Met Cys
 690 695 700
 Glu Lys Arg Ile Phe Glu Thr Val Asn Ser Val Arg His Pro Phe Leu
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 Val Asn Leu Phe Ala Cys Phe Gln Thr Lys Glu His Val Cys Phe Val
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 Met Glu Tyr Ala Ala Gly Gly Asp Leu Met Met His Ile His Thr Asp
 740 745 750
 Val Phe Ser Glu Pro Arg Ala Val Phe Tyr Ala Ala Cys Val Val Leu
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 Gly Leu Gln Tyr Leu His Glu His Lys Ile Val Tyr Arg Asp Leu Lys
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Leu Asp Asn Leu Leu Leu Asp Thr Glu Gly Phe Val Lys Ile Ala Asp
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 Phe Cys Gly Thr Pro Glu Phe Leu Ala Pro Glu Val Leu Thr Glu Thr
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 Glu Met Leu Val Gly Glu Ser Pro Phe Pro Gly Asp Asp Glu Glu Glu
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 Val Phe Asp Ser Ile Val Asn Asp Glu Val Arg Tyr Pro Arg Phe Leu
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 Ser Thr Glu Ala Ile Ser Ile Met Arg Arg Leu Leu Arg Arg Asn Pro
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 Glu Arg Arg Leu Gly Ala Ser Glu Lys Asp Ala Glu Asp Val Lys Lys
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 His Pro Phe Phe Arg Leu Ile Asp Trp Ser Ala Leu Met Asp Lys Lys
 915 920 925
 Val Lys Pro Pro Phe Ile Pro Thr Ile Arg Gly Arg Glu Asp Val Ser
 930 935 940
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 <213> Homo sapiens

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 Ile Ala Ala Gly Asp Phe Ile Glu His Ala Glu Phe Ser Gly Asn Leu
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 Tyr Gly Thr Ser Lys Val Ala Val Gln Ala Val Gln Ala Met Asn Arg
 85 90 95
 Ile Cys Val Leu Asp Val Asp Leu Gln Gly Val Arg Asn Ile Lys Ala
 100 105 110
 Thr Asp Leu Arg Pro Ile Tyr Ile Ser Val Gln Pro Pro Ser Leu His
 115 120 125
 Val Leu Glu Gln Arg Leu Arg Gln Arg Asn Thr Glu Thr Glu Glu Ser
 130 135 140
 Leu Val Lys Arg Leu Ala Ala Ala Gln Ala Asp Met Glu Ser Ser Lys
 145 150 155 160
 Glu Pro Gly Leu Phe Asp Val Val Ile Ile Asn Asp Ser Leu Asp Gln
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 Gln Arg Thr Gly Ala
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<210> 13
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<400> 13

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